

OUR CHANGING PLANET

The U.S. Global Change Research Program for Fiscal Year 2021

A Report by the U.S. Global Change Research Program and the Subcomittee on Global Change Research, National Science and Technology Council

A Supplement to the President's Budget for Fiscal Year 2021

OUR CHANGING PLANET

The U.S. Global Change Research Program for Fiscal Year 2021

A Report by the U.S. Global Change Research Program and the Subcomittee on Global Change Research, National Science and Technology Council

A Supplement to the President's Budget for Fiscal Year 2021

This material was developed with Federal support through the U.S. Global Change Research Program under National Aeronautics and Space Administration Award No. 80HQTR21D0004.

The official and complete version of this report is the PDF, available at: https://www.globalchange.gov/browse/reports/our-changing-planet-FY-2021

Suggested citation:

U.S. Global Change Research Program. 2021. Our Changing Planet: The U.S. Global Change Research Program for Fiscal Year 2021. Washington, DC, USA. doi: 10.7930/ocpfy2021

Since 1989, the U.S. Global Change Research Program (USGCRP) has submitted annual reports to Congress called *Our Changing Planet*. The reports describe the status of USGCRP research activities, provide progress updates, and document recent accomplishments. This Fiscal Year 2021 edition of *Our Changing Planet* provides a summary of programmatic achievements, recent progress, and budgetary information for USGCRP. It thereby meets the requirements set forth in the U.S. Global Change Research Act of 1990 (Section 102, P. L. 101–606) to provide an annual report on Federal global change research priorities and programs. It does not express any regulatory policies of the United States or any of its agencies, or make any findings that could serve as predicates for regulatory action.

Front Cover: An algal bloom in Lake St. Clair captured by the Operational Land Imager on the Landsat 8 satellite, July 28, 2015. Credit: NASA Earth Observatory image by Joshua Stevens, using Landsat data from the U.S. Geological Survey.

Our Changing Planet Editorial and Production Team

Charles A. Brodine – Engagement and Communications Specialist, USGCRP National Coordination Office **Alexa Jay** – Senior Science Writer/Editor, USGCRP National Coordination Office **Katie Reeves** – Engagement and Communications Lead, USGCRP National Coordination Office

Subcommittee on Global Change Research

Leadership

Mike Kuperberg - Executive Director, USGCRP Wayne Higgins - Chair, Department of Commerce Allison Crimmins - Director, National Climate Assessment

Principals

John Balbus - Department of Health and Human Services

Ben DeAngelo - Department of Commerce (National Oceanic and Atmospheric Administration)

Gerald Geernaert - Department of Energy

Noel Gurwick - U.S. Agency for International Development

William Hohenstein - Department of Agriculture

Kirk Johnson - Smithsonian Institution

Jack Kaye - National Aeronautics and Space Administration

April Marchese - Department of Transportation (acting)

Andy Miller - Environmental Protection Agency

Ben Petro - Department of Defense

Geoffrey Plumlee - Department of the Interior

Trigg Talley - Department of State

Maria Uhle - National Science Foundation

Executive Office of the President Liaisons

Grace Diana - Acting Executive Director, National Science and Technology Council **Kimberly Miller** - Office of Management and Budget

TABLE OF CONTENTS

THE U.S. GLOBAL CHANGE RESEARCH PROGRAM		
IMPLEMENTING THE NATIONAL GLOBAL CHANGE RESEARCH PLAN	2	
Advancing Science	3	
Informing Decisions	5	
Conducting Sustained Assessments	8	
Supporting International Global Change Research	9	
BUDGETARY INFORMATION	11	
BUDGETARY INFORMATION	I I	
APPENDIX I. USGCRP MEMBER AGENCIES	12	
DEEEDENGES	10	